

Attorney Docket No.: KUZ0028US.NP
Inventors: Tateishi et al.
Serial No.: 10/566,350
Filing Date: January 27, 2006
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This listing of the claims will replace all prior versions and listings of claims in the application:

Listing of the claims:

Claim 1 (currently amended): An adhesive patch having a pressure-sensitive adhesive layer comprising bisoprolol and/or a pharmaceutically acceptable salt thereof, wherein said adhesive layer is a matrix type, and the composition thereof contains an acrylic polymer obtained by copolymerizing a (meth)acrylic ester with a (meth)acrylic acid comprising a carboxyl group, the acrylic polymer contains no alcoholic hydroxyl group in molecules, and the penetration rate of bisoprolol through skin is 3-300 $\mu\text{g}/\text{h}\cdot\text{cm}^2$.

Claim 2 (canceled)

Claim 3 (previously presented): The adhesive patch according to claim 1, wherein the (meth)acrylic ester constituting the acrylic polymer is 2-ethylhexyl acrylate.

Claim 4 (previously presented): The adhesive patch according to claim 1, wherein the acrylic polymer is a 2-ethylhexyl acrylate·vinyl acetate·acrylic acid copolymer.

Claim 5 (previously presented): The adhesive patch according to claim 1, wherein the composition of the pressure-sensitive adhesive layer contains further an elastmeric polymer.

Claim 6 (original): The adhesive patch according to claim 5, wherein the elastmeric polymer is at least one kind

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selected from a group consisting of styrene-isoprene-styrene block copolymer, polyisobutylene, isoprene rubber, styrene-butadiene-styrene block copolymer, styrene-butadiene rubber and silicone rubber.

Claim 7 (previously presented): The adhesive patch according to claim 1 further comprising a percutaneous absorption promoter selected from a group consisting of lauryl alcohol, myristyl alcohol, oleyl alcohol, isostearyl alcohol, diethyl sebacate, lauric diethanolamide, isopropyl myristate, glycerol monocaprate, glycerol monolaurate, glycerol monooleate, sorbitan monolaurate, propylene glycol monolaurate, polyoxyethylene lauryl ether, pyrothiodecane, an organic acid and a pharmaceutically acceptable salt thereof.

Claim 8 (original): The adhesive patch according to claim 7, wherein the organic acid and/or the pharmaceutically acceptable salt thereof are at least one kind selected from a group consisting of acetic acid, propionic acid, lactic acid, salicylic acid and pharmaceutically acceptable salts thereof.

Claim 9 (original): The adhesive patch according to claim 7, wherein the percutaneous absorption promoter is isopropyl myristate.

Claim 10 (canceled)

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Claim 11 (previously presented): The adhesive patch according to claim 1, wherein the drug is bisoprolol hemifumarate.

Claim 12 (canceled)

Claim 13 (previously presented): The adhesive patch according to claim 2, wherein acrylic polymer further contains copolymerized butyl acrylate.

Claim 14 (previously presented): The adhesive patch according to claim 13, wherein the acrylic polymer is a 2-ethylhexyl acrylate-butyl acrylate-acrylic acid copolymer.

Claim 15 (previously presented): The adhesive patch according to claim 7, wherein the (meth)acrylic ester constituting the acrylic polymer is 2-ethylhexyl acrylate.

Claim 16 (previously presented): The adhesive patch according to claim 1, wherein the penetration rate of bisoprolol through the skin is $4.0-300 \mu\text{g}/\text{h}\cdot\text{cm}^2$.

Claim 17 (previously presented): The adhesive patch according to claim 1, wherein the (meth)acrylic ester constituting the acrylic polymer is butyl acrylate.

Claim 18 (previously presented): The adhesive patch according to claim 2, wherein acrylic polymer further contains copolymerized vinyl acetate.

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Claim 19 (previously presented): The adhesive patch according to claim 1, wherein the (meth)acrylic ester constituting the acrylic polymer is 2-ethyhexyl acrylate and butyl acrylate.

Claim 20 (previously presented): The adhesive patch according to claim 1, wherein the patch further comprises a backing contacting the pressure-sensitive adhesive layer.